USER'S GUIDE

Remote controls programming

ILLICO DIGITAL TV

VIDÉOTRON

QUEBECOR MEDIA

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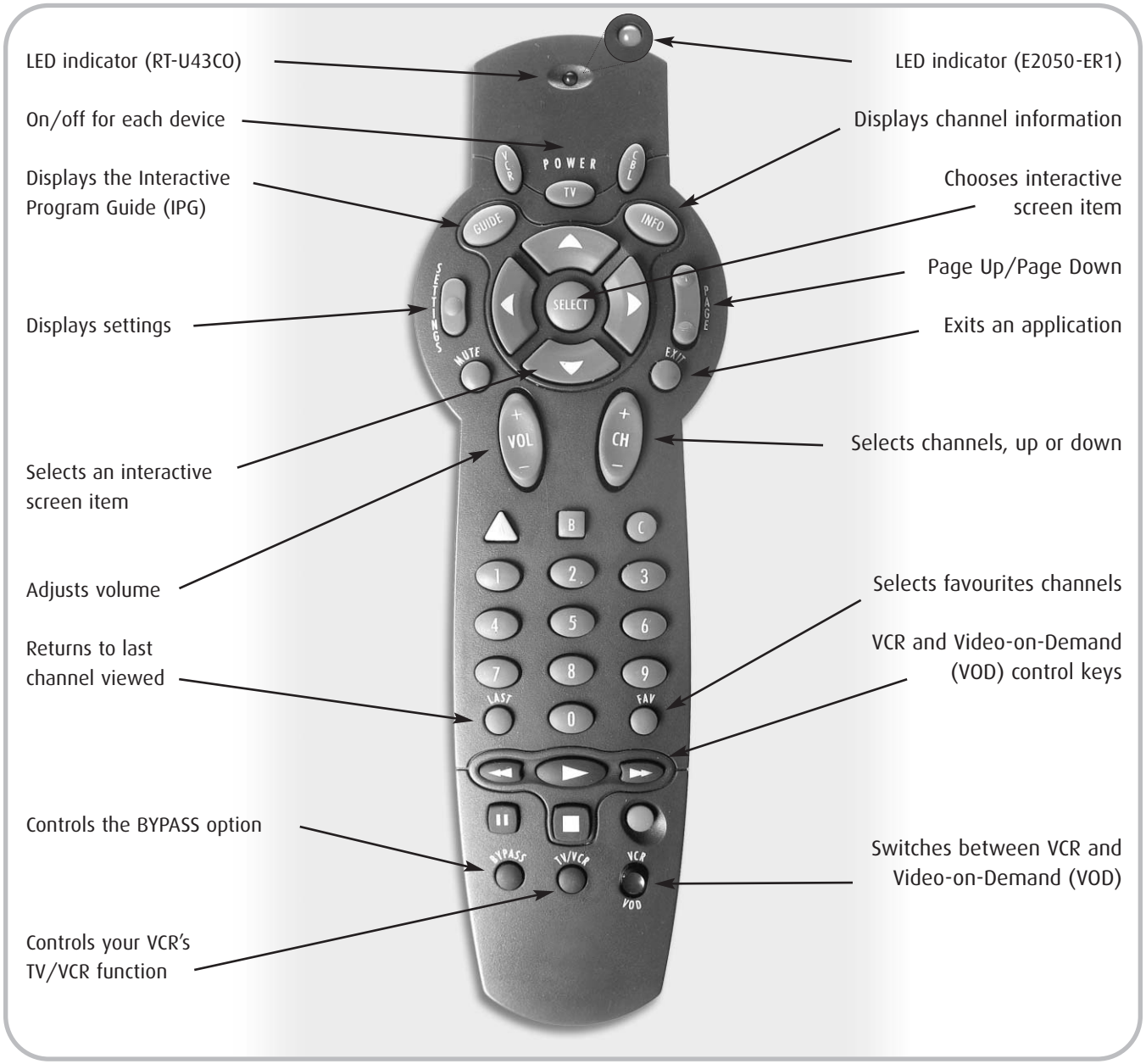
E2050-ER1 AND RT-U43CO REMOTE CONTROLS

There are three remote controls for the digital terminals: the E2050-ER1, the RT-U43CO and the RC-U49C+.
You can identify your model by examining the "5" key.

- This key is oval (5) on the E2050-ER1 and square [5] on the RT-U43CO and RC-U49C+.
- The RC-U49C+ is the one with the three buttons "**MODE**", "**ALL**" and "**AUDIO**" at the top.

MODELS E2050-ER1 AND RT-U43CO BUTTONS



The remote requires two alkaline AA batteries. A diagram inside the compartment of the remote indicates proper battery placement. Replace as needed, when the indicator light becomes dim or no longer illuminates.

PROGRAMMING THE E2050-ER1 REMOTE CONTROL

This step is not essential, but allows you to use the digital terminal remote control with your TV and VCR.

How to Program the TV Mode Key

1. Turn on the TV set.
2. Point the remote control away from the digital terminal, the TV and the VCR.
3. On your remote control, press and hold **TV** and **SELECT** at the same time until the LED on the remote blinks twice.
4. Using the remote control keypad, enter your TV's 3-digit setup code (**the codes are listed in the appendix on page 68**); the LED should blink once each time you enter a digit. When the three digits have been entered correctly, the LED blinks twice. If it doesn't blink twice, try another code.
5. Once you have found the correct code, point the remote control at the TV set and press **POWER**.
6. If the TV turns off, write the code you used here: **TV** _____
7. **If your TV or VCR brand is not listed in the appendix or if none of the codes works, refer to "How to Search for Codes", below**.

How to Program the VCR Mode Key

1. Turn on the VCR and move the **VCR/VOD** slide switch to the **VCR** position.
2. Repeat the steps described under "**How to Program the TV Mode Key**", substituting the **VCR** key for the **TV** key.
3. Write the code you used here: **VCR** _____

Located in the bottom right corner of the remote, the VCR/VOD key is used to activate the dedicated Video-on-Demand and VCR keys.

• Slide it to the **VOD** position when using Video-on-Demand, and to the **VCR** position when using the VCR.

How to Search for Codes

1. Point the remote control away from your TV or VCR, depending on which one you are programming.
2. **To search for TV codes,** press and hold **TV** and **SELECT** at the same time until the LED on the remote blinks twice.
   or
   To search for VCR codes, press and hold **VCR** and **SELECT** at the same time until the LED on the remote blinks twice.
3. Slowly enter the code **9 9 1**; the LED should blink once each time you enter a digit. When the three digits have been entered correctly, the LED blinks twice.
4. Point the remote control at the TV or VCR, and press **TV** or **VCR**.
   If the device turns off, go to step 5.
   If the device remains on, start again from the beginning of step 4.
5. Press **SELECT** to confirm a valid code; the LED blinks twice.
6. Point the remote toward the device you programmed, and power on and off to confirm operation.
7. You now need to identify the code you just found.

How to Identify Programmed Codes

1. Point the remote control away from the digital terminal , TV and VCR.
2. **To identify the TV code,** press and hold **TV** and **SELECT** at the same time until the LED on the remote blinks twice.
   or
2. **To identify the VCR code,** press and hold **VCR** and **SELECT** at the same time until the LED on the remote blinks twice.
3. Slowly enter the code **9 9 0**; the LED should blink once each time you enter a digit. When the three digits have been entered correctly, the LED blinks twice.
4. Press **1** on the keypad, then count the LED blinks. The number of blinks indicates the first digit in the code. If the LED doesn't blink, the digit is **0**.
5. Press **2** on the keypad, then count the LED blinks. The number of blinks indicates the second digit in the code.
6. Press **3** on the keypad, then count the LED blinks. The number of blinks indicates the third digit in the code.

How to Program the Volume Control

This step is not essential, but it lets you better control the volume on your devices.
You must have already completed TV setup as outlined in the **How to Search for Codes** section of this guide.

1. Point the digital terminal remote control away from the digital terminal, **TV** and **VCR**.
2. Press and hold the **CBL** and **SELECT** keys at the same time until the LED on the remote blinks twice.
3. Slowly enter the code **9 9 3**; the LED should blink once each time you enter a digit. When the three digits have been entered correctly, the LED blinks twice.
4. Press **TV** to control your television volume from the digital terminal remote control, or **CBL** to control your digital terminal volume from the digital terminal remote control. The LED blinks twice to confirm a valid selection.
5. Point the remote toward the digital terminal and adjust the volume to confirm operation.

> ⚠ **Before using the volume control feature for the first time**, set the volume to three-quarters using the TV remote control. **Use the digital terminal remote for all subsequent volume changes.**

PROGRAMMING THE RT-U43CO REMOTE CONTROL

How to Program the TV Mode Key

1. Turn on the TV set, then press and hold the TV and SELECT keys at the same time until the LED stays lit.
2. Press and hold the CH+ key (Point and Press™ method) until the TV set turns off. As soon as it turns off, release the CH+ key.
   or
2. Refer to the list of TV codes on page 68 and enter the code for your TV brand. If there are several, try them one at a time until the TV turns off.
3. Press the **MUTE** key. **If the TV turns on**, press the **TV** key to lock in the code. The LED will blink and go out. **If the TV does not turn on**, repeat steps above until you can turn the TV on and off.
4. Write the code and your TV's brand here: _____

> ⚠ **If, when using the Point and Press™ method, you find a code that turns your TV off but not back on,** you may have gone past the correct matching code. Try pressing **CH-** one step at a time until you find a code that turns your TV back on.

5. If you found the code using the Point and Press™ programming method refer to the section **3-Digit Code Number Readback**.

How to Program the VCR Mode Key

1. Turn on the VCR or DVD player, then press and hold the **VCR** and **SELECT** keys until the LED stays lit.
2. Repeat the steps described under **How to Program the TV Mode Key,** substituting the **VCR** key for the **TV** key.
3. Write the code and your TV brand here: _____
   Write the code and your DVD brand here: _____
4. If you found the code using the Point and Press™ programming method, refer to the section **3-Digit Code Number Readback,** below.

> **Located in the bottom right corner of the remote, the VCR/VOD key** is used to activate the dedicated Video-on-Demand and VCR keys. **The colour of the remote control's LED tells you which function has been activated.**
> • Press the **VCR/VOD** key. If the LED is **red, the remote is in Video-on-Demand mode**; if the LED is **green, it is in VCR mode**.

How to Program a TV/VCR Combination Unit

1. Follow the steps described under **How to Program the TV Mode Key** and **How to Program the VCR Mode Key**.
2. In the space provided, write the code for the TV _____ and VCR _____
3. If you found the code using the **Point and Press™ programming method**, refer to the section **3-Digit Code Number Readback,** below.

> **You cannot use the Point and Press™** method to program the VCR functions of the TV/VCR.

3-Digit Code Number Readback

1. **For the TV code**, press and hold the **TV** and **SELECT** keys at the same time until the LED stays lit.
2. Press the **INFO** key. The LED will "blink back" the code numbers, with a 1-second interval between each digit of the code. **Example:** For code "035", the indicator light will blink 10 times, then 3 times, then 5 times. Once you have found the code, write it down here for future reference _____
3. **For the VCR code,** follow steps 1 and 2 using the **VCR** and **SELECT** keys. Once you have found the code, write it down here for future reference _____
4. **For the terminal code,** follow steps 1 and 2 using the **VCR** and **SELECT** keys. Once you have found the code, write it down here for future reference _____

How to Program the Volume Control

1. Press and hold the **CBL** and **SELECT** keys at the same time until the LED stays lit.
2. Press the **VOL+** key, and then the **CBL** key. The LED will blink twice and go out.
3. To control the volume through the TV again, repeat step 1 and, at step 2, press the **VOL+** and **TV** keys.

How to Program the SmartKeys™

You can program the **CBL** and **TV** keys so that whenever either is pressed, several tasks take place in sequence.

To turn on the terminal, turn on the TV, and tune to channel 3 with the press of one button

1. Press and hold the **CBL** and **SETTINGS** keys at the same time until the LED stays lit.
2. In this order, press **CBL, TV, 0, 3.** The LED light will blink and stay lit.
3. Press **CH+** to lock in this setting; the indicator light will blink and go out.
4. To return the **CBL** button to its normal default setting, repeat step 1, then press **CH-.**

To turn on the TV and tune to channel 3 with the press of one button

1. Press and hold the **TV** and **SETTINGS** keys at the same time until the LED stays lit.
2. In this order, press **TV, 0, 3.** The LED light will blink and stay lit.
3. Press **CH+** to lock in this setting; the LED will blink and go out.
4. To return the **TV** button to its normal default setting, repeat step 1, then press **CH-.**

Important: When using SmartKeys™ to transmit a series of button presses, be sure to keep your remote aimed at the devices to ensure all functions are received in their entirety.

How to Reset the Remote Control

1. Press and hold the **CBL** and **SELECT** keys at the same time until the LED stays lit.
2. Press the **SETTINGS** key twice; the LED will blink and go out.

RC-U49C+ REMOTE CONTROL

These three remote controls have different programming procedures for their **TV** and **VCR** mode keys, as well as different **VOD/VCR** keys. **It's therefore important that you follow the instructions for your particular model.**

MODEL RC-U49C+ BUTTONS

Selects device being operated. Press **MODE**, then...
- **CBL** - for Cable mode
- **TV** - for TV mode
- **VIDEO** - for VCR/DVD mode
- **AUDIO** - for Audio mode

Displays the Interactive Program Guide (IPG)

Displays settings

Mutes volume

Selects an interactive screen item

Adjusts volume

Returns to last channel viewed

Controls the BYPASS option

Controls your VCR's TV/VCR function

Stretch & Zoom Functions

On/off for each device

Displays channel information

Chooses interactive screen item

Page Up/Page Down

Exits an application

Selects channels, up or down

On-screen decision buttons

Selects favourites channels

VCR and Video-on-Demand (VOD) control keys

Switches between VCR and Video-on-Demand (VOD)

Programmable favourite channel

Programmable favourite channel

The remote requires two alkaline AA batteries. A diagram inside the compartment of the remote indicates proper battery placement. Replace as needed, when the indicator light becomes dim or no longer illuminates.

PROGRAMMING THE RC-U49C+ REMOTE CONTROL

Point and Press® Programming

This method allows you to program the remote control without using codes. Instead, the remote control automatically finds the correct command that you select in a variety of codes until you find the code that operates your device. You then lock in the correct code as described below.

When using this method, there are several important points to remember:

- The order in which you program your electronic devices is not important.
- There may be several codes that turn your electronic devices on/off (or perform other functions). Once you lock-in a code, be sure to check the available functions for that device (i.e. TV - Vol+/-, Mute, TV Input (TV/VCR button), VIDEO - Play, Stop, Rew..., AUDIO - Volume/Mute) to see if they are operating.
- While the remote is searching for the correct setup code(s) for your electronic devices, it is possible that other (previously programmed) devices may turn on/off (or perform other functions). If this occurs, continue pressing the **CH+** or **CH-** buttons until you find the correct code for the device you are programming.
- It may take several minutes for the remote to find the correct code that turns your device on/off (or performs another selected function). During this time, the **POWER/MODE** buttons will illuminate in fast-rotation (i.e. CBL > TV > VIDEO > AUDIO > CBL..).

Programming your electronic devices using CH+ or CH- buttons (Point and Press® method)

1. Turn on all the electronic devices (TV, VCR, DVD, AUDIO) you want to program the remote to operate.
2. On your remote control, press and hold **SELECT**, then **MUTE** together until the **POWER/MODE** buttons illuminate in slow rotation (i.e. CBL > TV > VIDEO > AUDIO > CBL..).
3. Press and hold the **CH+** button until one device turns off. While you are pressing the **CH+** button, the **POWER/MODE** buttons will illuminate in fast-rotation. As soon as one device turns off, release the **CH+** button.
4. Press **MUTE** button.
   a. If the device that turned off... turns back on, press **SELECT** to lock in this code. The **POWER/MODE** buttons will blink 3-times and go out.
      or
   b. If the device that turned off... does not turn back on, press **CH-** one step at a time until that device turns back on. Each time you press the **CH-** button, the **POWER/MODE** buttons will illuminate once in reverse fast-rotation (i.e. AUDIO > VIDEO > TV > CBL).
5. Once you have found a code that turns the device on/off, press **SELECT** to lock in this code. The **POWER/MODE** buttons will blink 3-times and go out.
6. Repeat steps 2 to 5 above for each of the remaining electronic devices you wish to program the remote to operate.

Code Number Readback

To identify the 3-digit setup codes stored under the Point and Press® programming method, follow these steps:

1. **For the TV code**, press and hold the **TV** and **SELECT** keys at the same time until the **TV** button illuminates.
2. Press the **INFO** key. The **TV** button will "blink back" the code numbers, with a 1-second interval between each digit of the code. **Example:** For code "035", the indicator light will blink 10 times, then 3 times, then 5 times. Once you have found the code, write it down here for future reference _____
3. **For the VCR code,** follow steps 1 and 2 using the **VCR** and **SELECT** keys. Once you have found the code, write it down here for future reference _____
4. **For the DVD code,** follow steps 1 and 2 using the **VCR** and **SELECT** keys. Once you have found the code, write it down here for future reference _____
5. **For the AUDIO code,** follow steps 1 and 2 using the **AUDIO** and **SELECT** keys. Once you have found the code, write it down here for future reference _____

Located in the bottom right corner of the remote, the VCR/VOD key is used to activate the dedicated Video-on-Demand and VCR keys.

- Slide it to the **VOD** position when using Video-on-Demand, and to the **VCR** position when using the VCR.

CODE-ENTRY PROGRAMMING

How to Program the TV Mode Key

1. Turn on your TV. On your remote control, press and hold **SELECT**, then **MUTE** together until the **POWER/MODE** buttons illuminate in slow rotation (i.e. CBL > TV > VIDEO > AUDIO > CBL..).
2. Refer to the list of TV Setup Codes on page 68. Using the remote control keypad, enter your 3-digit setup code. You may have to enter several different codes until your TV turns off.
3. As soon as you have entered a 3-digit code that turns your TV off, press **MUTE**. If the TV turns back on, press **SELECT** to lock in the code. The **POWER/MODE** buttons will blink 3 times and go out. If the TV does not turn back on, enter a different 3-digit setup code until your TV turns back on. Then press **SELECT** to lock in the code. The **POWER/MODE** buttons will blink 3 times and go out.
4. If the TV turns on, write the code you used here: **TV** _____
   Note : If your TV or VCR/DVD brand is not listed in the appendix or if none of the codes works, refer to "Point and Press® Programming" section.

How to Program the VCR/DVD Mode Key

1. To program your VCR or DVD, repeat steps 1 to 4 above, substituting the **TV** indications for your **VCR**.
2. Write the code you used here: **VCR** _____ **DVD** _____

How to Program a TV/VCR Combination Unit

1. First, turn on your TV/VCR combination device and install a VHS tape.
2. Next, program your remote to operate the TV functions. Using the Code Entry Programming method described above, find a TV Setup Code that operates the TV functions (Power, Vol. +/-, Mute) of your TV/VCR unit.
3. Using the **Code Entry Programming method** described above, enter, lock and test each 3-digit VCR Setup Code for your brand until a code is found that operates the transport functions of your TV/VCR unit.

ALL button

Once you have programmed each of your devices, press **ALL** button to turn all of them on/off with a single button press. You can also program the **ALL** button to tune your TV to its correct output channel (usually 3).

Programming the ALL Button

1. Press **MODE**, then **CBL** to select the remote's cable mode.
2. Press **SETTINGS**, then **ALL** together until the **TV** button illuminates.
3. Press **[0]** , then **[3]** .

> ⚠
> - Your TV output channel may also be **2** or **4**.
> - Depending on your TV brand, the channel may have to be entered as **3**, **03** ou **003**.

4. Press **CH+** to store the TV channel. The **TV** button will blink 3-times and go out.

Using the ALL button

When pressing the **ALL** button, be sure to keep the remote control aimed at your electronic devices until your electronic devices turn on or off.

Resetting the ALL button

1. Press **MODE**, then **CBL** to select the remote's cable mode.
2. Press **SETTINGS**, then **ALL** together until the **TV** button illuminates.
3. Press **CH+**. The **TV** button will blink 3-times and go out.

M1, M2 buttons

Your remote has 2 Channel Memory Buttons – **M1** and **M2**. Each of these buttons can store up to 5 cable channels. Each cable channel can be up to 5-digits. Some or all of your remote's Channel Memory Buttons may come pre-tuned to channels or functions selected by your cable operator. If they have not been pre-tuned by your cable operator, they can be programmed as follows:

Programming M1 and M2 buttons

To program the **M1** button to cable channels 1, 12, 123, 231 and 17, follow these steps:

1. Press **M1**, then **CBL** together until the **CBL** button illuminates.
2. Enter each channel as follows:
   a. Enter 1st channel # - 001.
   b. Press CH+ to advance to next channel # setting.
   c. Enter 2nd channel # - 012.
   d. Press CH+ to advance to next channel # setting.
   e. Enter 3rd channel # - 123.
   f. Press CH+ to advance to next channel # setting.
   g. Enter 4th channel # - 231.
   h. Press CH+ to advance to next channel # setting.
   i. Enter 5th channel # - 017.
3. Press **M1** to store the above channels. The **CBL** button will blink 3-times and go out. To store fewer than 5 channels, you can press the **M1** button any time after entering a complete channel number.
4. Repeat the above steps to program the **M2** button. Follow the example in step 1, but press **M2**, then **CBL** together until the **CBL** button illuminates.

Using M1, M2 buttons

Using the programmed channels (previous page) as an example...

1. Press **M1** Cable set-top terminal tunes to channel 001.
2. Press **M1** again – Cable set-top terminal tunes to channel 012.
3. Press **M1** again – Cable set-top terminal tunes to channel 123.
4. Press **M1** again – Cable set-top terminal tunes to channel 231.
5. Press **M1** again – Cable set-top terminal tunes to channel 017.
6. Press **M1** again – Cable set-top terminal tunes to channel 1.... repeat.

Whenever a Channel Memory button is pressed, the function of the transport buttons will automatically switch back to Cable.

When pressing the **M1** button, be sure to keep the remote control aimed at your Cable set-top terminal to ensure the full channel numbers are received in their entirety.

Resetting M1, M2 buttons

To reset **M1** and **M2**, follow these steps:

1. Press **M1**, then **CBL** together until the **CBL** button illuminates.
2. Press **M1**. The **CBL** button will blink 3-times and go out.

Resetting # button

The **#** button comes pre-set to operate the Zoom function of your digital set-top terminal. In the unlikely event this button stops performing this function, it may need to be reset. To reset the **#** button to its factory default setting, follow these steps:

1. Press **#**, then **CBL** together until the **CBL** button illuminates.
2. Press **#**. The **CBL** button will blink and go out.

How to Program the Volume Control

When you first program your remote, volume/mute are controlled through your TV (except AUDIO which defaults to the AUDIO device). The volume control options in each mode of the remote are:

CBL	TV (default), Cable or Audio.
TV	TV (default), Cable or Audio.
VIDEO	TV (default), Cable or Audio.
AUDIO	AUDIO device (default), Cable or TV.

To control volume/mute through your Cable set-top terminal in the remote's cable mode...

1. Press **CBL**, then **SELECT** together until the **CBL** button illuminates.
2. Press **VOL+**, then **CBL** for Cable volume. The **CBL** button will blink 3-times and go out.
   To return volume control to your TV, repeat step 1, then press **VOL+**, then **TV** in step 2.

How to Program the SmartKeys™

Your remote has two SmartKeys™ - **CABLE** and **TV** that operate in its cable mode.
Each SmartKey™ can be programmed to transmit multiple functions.

Programming and using the CBL SmartKey™

The **CBL** button normally turns on/off your cable set-top terminal.
To program the **CBL** button to transmit multiple pre-programmed functions, follow the steps below:

1. Press **MODE**, then **CBL** to select the cable mode of your remote.
2. Press **CBL**, then **SETTINGS** together until the **CBL** button illuminates.
3. Press the option number below for the desired functions:

Option	Pre-Programmed to turn on...
[1]	Cable & TV - tune TV to Ch 3
[2]	Cable & TV - tune TV to Ch 2
[3]	Cable & TV - tune TV to Ch 4
[4]	Cable, TV & VIDEO - tune TV to Ch 3
[5]	Cable, TV & VIDEO - tune TV to Ch 2
[6]	Cable, TV & VIDEO - tune TV to Ch 4
[7]	Cable, TV, VIDEO & AUDIO - tune TV to Ch 3
[8]	Cable, TV, VIDEO & AUDIO - tune TV to Ch 2
[9]	Cable, TV, VIDEO & AUDIO - tune TV to Ch 4
[0]	Cable only (default)

4. The **CBL** button will blink 3-times and go out, storing the selected option.

Programming and using the TV SmartKey™

The **TV** button normally turns on/off your TV.
To program the **TV** button to transmit multiple pre-programmed functions, follow the steps below:

1. Press **MODE**, then **CBL** to select the cable mode of your remote.
2. Press **TV**, then **SETTINGS** together until the **TV** button illuminates.
3. Press the option number below for the desired functions:

Option	Pre-Programmed to turn on...
[1]	TV - tune TV to Ch 3
[2]	TV - tune TV to Ch 2
[3]	TV - tune TV to Ch 4
[0]	TV only (default)

4. The **TV** button will blink 3-times and go out, storing the selected option.

Important: When using SmartKeys™ to transmit a series of button presses, be sure to keep your remote aimed at the devices to ensure all functions are received in their entirety.

Mode Lock™

Your CheckMate® IV remote can be set-up in two different operating modes - "locked" and "unlocked". From the factory, it is set in its "locked" mode, which means it will operate all the functions of your cable set-top terminal, plus a limited number of functions of your TV, VCR, DVD devices. In its locked mode, your remote is unable to change channels on your TV device.

By comparison, in its "unlocked" mode, it can still operate all the functions of your cable set-top terminal, but more of the functions of your TV, VCR and DVD devices.

The following steps will allow you to set your remote to its "unlocked" mode, or reset it to its "locked" mode.

To "unlock" your remote for multi-device operation...
1. Press **CBL**, then **MUTE** together until the **CBL** button illuminates.
2. Press [9, 9, 9]. The **CBL** button will blink 3-times and go out.

To "lock" your remote in its cable operating mode for single-device operation...
1. Press **CBL**, then **MUTE** together until the **CBL** button illuminates.
2. Press [0, 0, 0]. The **CBL** button will blink 3-times and go out.

TV/VCR Input

In the remote's Cable and TV modes, this button operates the TV Input function on your TV. In the remote's VIDEO mode, this button changes the **TV/VCR** function on your VCR.

You can program this button so that in the remote's cable mode, **TV/VCR** will operate the TV/VCR function on your VCR, eliminating the need to change modes on the remote.

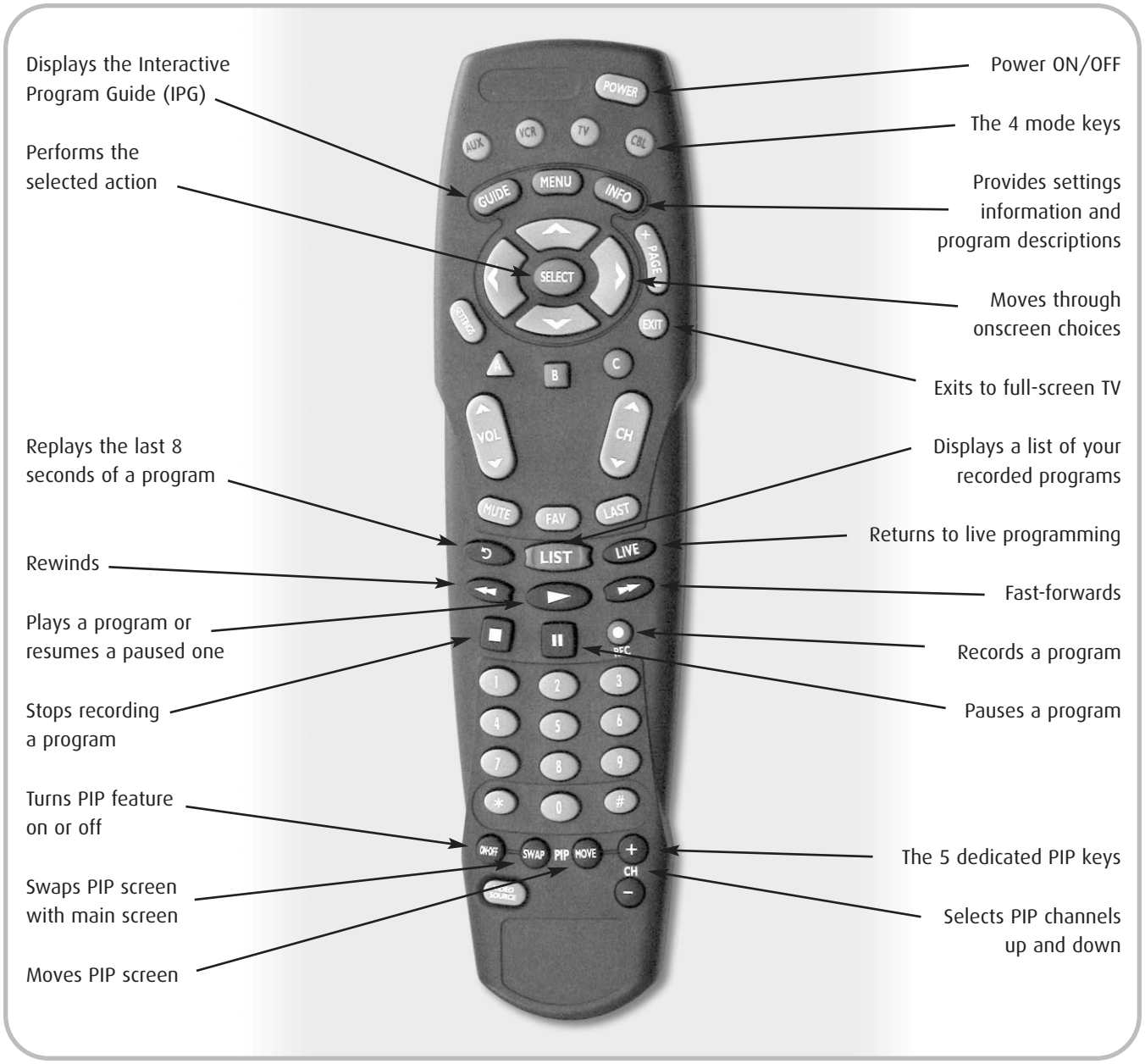
To program the **TV/VCR** button to operate your VCR...
1. First activate **CBL** mode.
2. Press **TV/VCR**, then **SELECT** together until the **CBL** button illuminates.
3. Press **VIDEO**. The **CBL** button will blink 3-times and go out.

To return this button to operate the TV Input function on your TV, repeat step 1, then press **TV** in step 2.

THE AT8400 ALLTOUCH® REMOTE CONTROL FUNCTIONS AS FOUR REMOTE CONTROLS IN ONE!

Once programmed, it can control your TV, VCR, PVR, and any equipment connected to the AUX outputs.

MODEL AT8400 BUTTONS



The remote requires two alkaline AA batteries. A diagram inside the compartment of the remote indicates proper battery placement. Replace as needed, when the indicator light becomes dim or no longer illuminates.

The steps described below are the same for each mode button. **Repeat them for each device controlled by the remote**, make sure you press the correct mode key for each device.

PROGRAMMING THE AT8400 REMOTE CONTROL

How to Program the TV Mode Key

1. Turn on the TV set, then press and hold the **SELECT** and **TV** keys until the TV mode key blinks twice.
2. Using the remote control keypad, enter the setup code for your brand of device (**the codes are listed in the appendix at the end of this guide**); if the TV mode key blinks twice, you have entered the right code. If it does not blink twice, start again using a different code.
3. Once you have found the correct code, point the remote control towards the device and press **POWER**, or **CH+**.
4. If the device works properly, write the code you used here: **TV** _____
5. Repeat these steps for other devices and write down the code for each.

VCR _____ **AUX (CD and DVD)** _____ **CBL (PVR)** _____

If none of the codes works, refer to **How to Search for Codes**, below.

How to Search for Codes

1. Turn the TV on, then press and hold the **SELECT** key and the appropriate mode key (AUX, VCR, TV or CBL) until it blinks twice.
2. Enter carefully the code **9 9 1**. After each digit the mode key will blink once.
   At the end of the operation it should blink twice.
3. Point the remote towards the device and press .
   The remote automatically tests each code in its library, starting with the most common ones.
   The mode key blinks once each time the remote transmits a new code.

Each of the code libraries contains fewer than 100 codes.
The mode key blinks twice when it reaches the last code in the library.

4. As soon as the device powers down, press **SELECT** then the **POWER** key.
   If the device turns on, you have found the right code. Press SELECT to lock it.
5. You now need to find out which code you used.

How to Identify Programmed Codes

1. Press and hold the **SELECT** key and the appropriate mode key (AUX, VCR, TV or CBL) until the mode key blinks twice.
2. Enter carefully the code **9 9 0**. After each digit the mode key will blink once.
   At the end of the operation it should blink twice.
3. Press **1**, then count the number of times the mode key blinks.
   That number indicates the first digit in the code. If the mode key does not blink, the digit is **0**.
4. Press **2**, then count the number of blinks. That number indicates the second digit in the code.
5. Do the same for **3** and **4**, and the numbers of blinks. **They indicate the third and fourth digits in the code**.

How to Program the Volume Control

This step is not essential, but it gives you better control of the volume on your devices.

1. Press the **SETTINGS** key twice to display the General Settings screen, and make sure that the **Audio: Volume** Control setting is set to **Variable**.
2. Turn on the device, then press and hold the **SELECT** and **CBL** keys until the **CBL mode** key blinks twice.
3. Enter carefully the code **9 9 3**. After each digit the **CBL** mode key will blink once.
   At the end of the operation it should blink twice.
4. On the PVR remote, press the **MODE** key for the appropriate device volume you want to control.
5. Point the remote towards the device, and adjust the volume to confirm that the **VOLUME** and **MUTE** keys function as expected.

TV SETUP CODES

Admiral – 107, 030, 061, 193, 056, 026, 054, 211
Advent – 072, 094, 425
Adventura – 060, 185, 047
Aiko – 106
Aiwa – 135, 214
Akai – 044, 053
Alaron – 193
Amark – 007, 086, 023, 215
Ambassador – 191
Ampro – 112
Amstrad – 006, 157
Anam - 194, 069, 088, 089, 093, 111, 120, 125, 134, 217, 218, 219, 220, 221, 222, 223
AOC – 033, 044, 070, 199, 053, 030, 038, 427
Audiovox – 106, 194, 465, 111, 220
Baysonic – 194
Belcor – 033, 073
Bell & Howell – 030, 168, 211
Bradford – 194
Brocksonic – 250, 477, 054, 165, 167
Brockwood – 192, 033, 073
Candle – 066, 044, 070, 027, 052, 060, 068, 091
Carnivale – 044
Carver – 068
Celebrity – 014
Centurion – 040, 051, 095, 107, 108
Cineral – 106, 465
Citizen – 060, 044, 070, 074, 106, 027, 052, 059, 068, 091, 211, 233
Concerto – 070, 051, 192, 073, 095
Contec – 194, 020, 199, 147
Coronado – 007, 023
Craig – 194, 134, 223
Crosley – 068
Crown – 194, 007, 023
Curtis Mathes – 180, 030, 044, 061, 065, 068, 070, 074, 107, 159, 168, 465, 040, 016, 054, 108, 211, 213
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Daewoo – 106, 465, 027, 039, 051, 068, 073, 090, 091, 092, 094, 095, 101,102, 108, 114, 118, 121,123, 130, 158, 159, 189, 191, 194, 196, 197, 198, 200, 202, 204, 205, 206, 207, 209
Daytron – 192, 051, 040, 073, 095, 107, 108
Denon – 159
Dumont – 031, 073, 192
Electro Home – 051, 073, 095, 192
Electroband – 014
Elektra – 002, 353
Emerson – 250, 168, 191, 192, 193, 194, 296, 477, 007, 008, 012, 054, 108, 016, 023, 053, 064, 103, 139, 158, 159, 164, 165, 166, 167, 169, 392, 400, 401, 402, 408, 415
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Fisher – 168, 028, 355, 356
Fujitsu – 193
Funai – 047, 185, 193, 194
Futuretech – 194
Gateway – 426
GE – 035, 061, 065, 107, 149, 192, 296, 465, 005, 019, 027, 033, 037, 046, 051, 055, 015, 018, 042, 044, 049, 054, 068, 073, 090, 095, 101, 102, 103, 389, 390, 396, 403, 406, 407
Gibralta – 007, 025, 027, 040, 051, 059, 058, 192, 023, 048, 053, 068, 073, 090, 095, 107, 108, 233, 360
Gilbrater – 031, 044
Goldstar(LG) – 044, 070, 192, 124, 007, 027, 040, 059, 058, 023, 053, 068, 073, 090, 107, 108, 233, 360, 361
Gradiente – 067, 070
Grundig – 059, 233
Grunpy – 193, 194
Hall Mark – 192, 051, 073, 095
Harley Davidson – 193
Havard – 194
Hitachi – 070, 159, 007, 027, 049, 051, 085, 023, 068, 095, 096, 097, 098, 099, 100
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Inkel – 075, 364
Inteq – 031
Janeil – 060
JBL – 068
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JCB – 014
JVC – 067, 077, 080, 132, 104, 105, 106, 396, 397, 410
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KEC – 194
Kenwood – 044
Kloss – 060
KMC – 007, 023
KTV – 044, 194, 007, 029, 059, 023, 053, 233, 366
LG – 070, 023, 053, 068, 073, 090, 107, 108, 233, 360, 361
Kurazai – 030, 211, 213
Lodgenet – 030, 211, 213
Logik – 030, 211, 213
Luxman – 070, 027, 051, 192, 068, 073, 095
LXI – 061, 068, 168, 170, 192, 006, 056, 105, 024, 026, 157
Magnavox (Philips) – 044, 068,193, 001, 005, 007, 026, 027, 052, 048, 081, 192, 023, 068, 071, 073, 089, 090, 091, 093, 134, 385, 387, 397, 404
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Marantz – 044, 068, 076, 053, 107, 108, 109
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Memorex – 030, 070, 164, 168, 192, 264, 090, 211, 213, 355, 388, 405
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Midland – 031, 061, 065, 149, 053
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NEC – 044, 070, 027, 040, 101, 028, 068, 090, 108, 200
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Penney – 035, 044, 061, 065, 070, 074, 149, 170, 192, 033
Philco – 044, 068, 159, 477, 001, 007, 027, 052, 081, 023, 053, 071, 072, 091
Philips – 068
Philips (Magnavox) – 001, 027, 081, 023, 068, 071, 073, 089, 090, 091, 093, 134, 385, 387, 397, 404, 072
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Portland – 106, 007, 027, 023, 068
Prism – 065
Proscan – 061, 055, 073, 082, 112, 070
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Pulsar – 031, 192, 073
Quarter – 060
Quartz – 060
Quasar – 179, 065, 264, 019, 049, 176, 044
Radio Shack – 179, 044, 061, 070, 168, 192, 194, 073
Radix – 051
Randex – 051
RCA – 061, 104, 149, 065, 107, 022, 027, 046, 072, 073, 082, 062, 049, 056, 074, 119, 120, 254, 042, 052, 053, 054, 055, 069, 070, 416
Realistic – 179, 044, 070, 192, 194, 012, 060, 062, 014, 049, 051, 267, 548, 022, 166, 168
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Sharp – 179, 107, 007, 009, 056, 064, 096, 062, 016, 022, 023, 024, 025, 026, 027, 028, 029, 393, 395, 409
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Shogun - 254
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Signature 2000 – 007, 040, 056, 030, 193, 023, 026, 108, 211, 213
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Sunpak – 267
Supre-Macy – 380
SSS – 194
Starlite – 194
STS – 056
SupregMacy – 060
Supreme – 014
Symphonic – 185, 006, 014, 047, 157
Sylvania – 044, 068, 001, 005, 006, 026, 027, 040, 052, 081, 014, 049, 057, 095, 068, 071, 072, 090, 091, 093, 107, 108, 157, 158, 419
Tandy – 107
Tatung – 069, 019, 044
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Techwood – 065, 070, 027, 068
Teknika – 030, 070, 074, 106, 164, 193, 194, 001, 007, 027, 052, 023, 068, 072, 091, 168, 213
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Telerent – 007, 030, 023, 213
Tera – 127, 381
Tevion – 065, 414
TMK – 070, 191, 192, 027, 068, 090
Toshiba – 074, 168, 170, 041, 043, 030, 031, 038, 039
Tosonic – 199
Totevision – 059, 053, 233
Universal – 027, 035, 068, 102
Vector Research – 044
Victor – 067
Vidikron – 068
Vidtech – 192, 027, 068
ViewSonic – 428
Viking – 060
Wards – 030, 179, 035, 044, 070, 192, 193, 027, 068, 090
White Westinghouse – 193, 211, 408
XR-1000 – 030, 213
Yamaha – 044, 033, 027, 068
York – 040, 070, 090, 108
Zenith – 030, 031, 106, 025, 034, 036, 047, 048, 049, 050, 051, 391, 405, 406, 434

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Adventura – 014
Aiko – 292
Aiwa – 014, 051, 106, 132
Akai – 055, 075, 120, 011, 021, 098, 103, 269, 275, 336, 351, 352, 354
American High – 049
Asha – 254
Audio Dynamics – 007, 052, 243, 291
Audiovox – 051, 106, 194, 465
Beaumark – 254
Bell & Howell – 118, 060, 357
Broksonic – 016, 135, 198, 225, 030, 048, 333, 337, 358, 359
Calix – 051
Canon – 049, 034, 105, 086, 362
Carver – 095
CCE – 086, 292
Cineral – 292
Citizen – 051, 292, 006, 059, 254, 033, 172, 247, 331
Colortyme – 052, 291
Colt – 086
Craig – 051, 061, 086, 254, 172, 363
Curtis Mathes – 049, 055, 074, 176, 006, 034, 052, 086, 112, 247, 291
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Daewoo – 059, 292, 010, 012, 058, 112, 114, 116, 033, 343, 344, 345, 346, 347
Daytron – 002, 058, 345, 365
DBX – 007, 052, 243, 291
Denon – 056
Dynatech – 014,106, 132
Electrohome – 051
Electrophonic – 051
Emerex – 046
Emerson – 014, 016, 051, 057, 075, 135, 198, 222, 225, 226, 292, 003, 022, 040, 091, 101, 106, 107, 109, 059, 033, 086, 132, 326, 327, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342
Fisher – 061, 068, 118, 050, 060, 035, 081, 357, 363
Fuji – 047, 049
Funai – 014, 106, 132
Garrard – 014
GE – 062, 049, 074, 254,034, 041, 086, 172, 174
Go Video – 019, 043, 063, 348, 349, 350
GoldStar (LG) – 051, 052, 006, 247, 331
Gradiente – 014
Harley Davidson – 014
Harman/Kardon – 052, 291
Harwood – 086
Headquarter – 060
HI-Q – 061
Hitachi – 014, 055, 056, 119, 005, 078, 132
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Instant Replay – 017, 034, 049, 086
JC Penney – 017, 034, 049, 052, 056, 060, 254, 078, 086, 172, 238, 291
JCL – 049, 086
Jensen – 055
JVC – 081, 055, 006, 007, 026, 038, 060, 102, 120, 128, 243, 247, 250, 253
KEC – 051, 292
Kenwood – 081, 052, 055, 006, 007, 060, 106, 120, 132, 238, 243, 247
KLH – 086
Kodak – 049, 051
LG (GoldStar) – 051, 052, 006, 247, 331
Lloyd's – 014, 222, 132
Lloyd – 106
Logik – 086, 367
LXI – 051, 106, 132, 331
Magnasonic – 292
Magnavox (Philips) – 014, 049, 053, 095, 034, 106, 163, 086, 132, 183
Magnin – 254
Marantz – 049, 095, 006, 052, 060, 086, 172, 183, 238, 247, 291
Marta – 051, 331
Matsui – 094, 368
Matsushita – 049, 176
MEI – 049
Memorex – 060, 062, 014, 049, 051, 053, 061, 118, 176, 254, 034, 104, 106, 110, 132, 238, 331, 363, 369, 370
MGA (Mitsubishi) – 081, 062, 057, 075, 254, 031, 042, 255, 258
MGN Technology – 254
Minolta – 056, 119
Mitsubishi (MGA) – 081, 062, 057, 075, 254, 031, 042, 255, 258
Montgomery Ward – 009, 014, 034, 037, 062, 074, 066, 170, 173, 373
Motorola – 062, 049
MTC – 014, 254, 106, 132, 172
Multitech – 014, 086, 254, 106, 132, 172, 367
NEC – 081, 052, 055, 118, 007, 060, 070, 071, 120, 238, 243, 291, 374, 375
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Olympus – 049
Optimus – 062, 051, 052, 055, 118, 176
Orion – 016, 198, 013, 022, 065, 066, 067, 322, 326, 327, 328, 329, 330
Panasonic – 049, 176, 034, 099, 112, 117, 430
Penney – 049, 051, 052, 056, 068, 254
Pentax – 056, 119, 078
Philco – 049, 034, 106, 086, 132, 183
Philips (Magnavox) – 049, 095, 017, 034, 106, 086, 132, 183
Pilot – 051
Pioneer – 081, 176, 045, 078, 120, 263
Portland – 058, 345
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Quarter – 060
Quartz – 060, 090, 238, 378
Quasar – 049, 176, 034, 112
Radio Shack – 014, 051
Radix – 051
Randex – 051
RCA – 062, 049, 056, 074, 119, 120, 254, 015, 017, 037, 041, 106, 078, 132, 141, 170, 172, 173, 174
Realistic – 060, 062, 014, 049, 051, 061, 118, 034, 106, 066, 132, 238, 363
Runco – 053
Samsung – 059, 254, 021, 039, 098, 108, 111, 269, 271, 275, 276, 278
Sanky – 062, 053
Sansui – 081, 014, 055, 093, 120, 367, 379
Sanyo – 060, 061, 118, 254, 114, 238, 346, 357, 363
Scott – 057, 059, 135, 198, 255, 226, 003, 031, 033, 332, 367
Sears – 060, 014, 049, 051, 056, 061, 068, 118, 119, 035, 078, 238, 331, 363
Semp – 059
Sharp – 062, 004, 066, 075
Shintom – 086, 367
Shogun – 254
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Singer – 086
Sony – 047, 014, 046, 048, 049, 032, 056, 058, 060
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JVC – 079, 177, 179
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KLH – 134, 248, 252
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Mitsubishi – 083, 181, 185
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Onkyo – 085, 244
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Sylvania – 421
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